ARCHGARD
FIREPLACE PRODUCTS

* see page 4 for optional items shown with this

Optima 32 - 1

Gas Fired Vented Room Heater (Direct Vent)

(SERIAL #3940 AND UP)

For use with Natural Gas or Propane*

WARNING: If the information in this manual is not followed exactly, fire or explosion may result causing property damage, personal injury or loss of life.

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

WHAT TO DO IF YOU SMELL GAS:

* Do not try to light any appliance.
* Do not touch any electrical switch; do not use any phone in your building.
* Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
* If you cannot reach your gas supplier, call the fire department.

Installation and service must be performed by a qualified installer, service agency or the gas supplier.

Users' Installation Operation and Maintenance Manual

This appliance may be installed in an aftermarket permanently located, manufactured home (USA only) or mobile home, where not prohibited by local codes.

This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases, unless a certified kit is used.

*Conversion kit required for Propane use

Installer: Please leave this manual with the appliance owner for future reference

ARCHGARD
LIFETIME LIMITED WARRANTY

7116 Beatty Dr
Mission, BC V2V 6B4
Canada

INTERTEK
C Warnock Hersey US

200-0165

Feb 2007

INTRODUCTION

Congratulations on choosing an Archgard Gas Fireplace!

The Optima 32-1 Direct Vent Insert is one of the most advanced Direct Vent Insert heater available today. It is solidly designed using the latest technology and manufactured to the highest quality. It is our aim to provide you with an appliance for many trouble-free years of reliable service.

Some of the many features of your Optima 32-1 Direct Vent Insert are:

Heater Classification	The Optima 32-1 is classified as a heating appliance. Therefore, it uses Direct Vent safety technology and it is suitable for continuously operated zone heating.
High Efficiency	The Optima 32-1 has one of the highest efficiencies of any Direct Vent gas insert, which means that it is less expensive to operate.
Adjustable Fan Speed	Each Optima 32-1 insert comes complete with a heat activated circulation fan with a fully adjustable speed control.
Adjustable Flame	The flame aesthetics and heat output can be adjusted to suit the owner's liking and heating needs.
Solid Construction	The Optima 32-1 is mainly constructed of 16 and 18 gauge galvanized and aluminized coated steel for long life and durability.
Optional Accessories	Check with your Authorized Archgard Dealer for a full complement of decorative accessories to suit your home's décor and your tastes. Some of the accessories available are: 24K Gold Overlay (for the flat window), a variety of surrounds (faceplates) with gold, black or pewter trims and an overlay bay window that simply attaches to the front of your fireplace while leaving the flat glass door in place.
Millivolt Control System.	The Optima 32-1 uses a gas control valve that is ready for an optional wall thermostat, or a hand-held "wireless" remote control.

Please read this manual carefully prior to installation and operation of the appliance. Proper installation, operation and maintenance of the appliance will provide you with many years of enjoyment.

We recommend you record the following information:

Fireplace Model Number: **OPTIMA 32-1** Serial Number: _____

Date of Installation: _____

Type of Gas Used by the Fireplace: ☐ Natural Gas ☐ Propane

Dealer's Name & Address: _____

_____

Dealer's Phone Number: _____

CONTENTS

- Optima 32-1 pictured on the front cover is shown with Optional Gold Overlay (Part # GO-32/35) and Contoured Surround (Part # ESK-32R)

CONTENTS	PAGE #
Caution and Safety Instructions	5
Appliance Certification, Installation Codes and Specifications	6
Appliance Dimensions and Minimum Requirements for Fireplace Dimensions	7
Clearance to Combustibles	8
Gas Connections	9
Appliance Description, Leveling the Appliance and Electrical Requirements	10
Venting Instructions	11 - 12
Surround Installation and Rocker Switch Wiring	13
Optional Wall Switch, Thermostat or Remote Control. Suggested wiring.	14
Log Placement (FiberFlame Log Set) and Ceramic Brick Panels (Liner)	15 - 19
Final Installation Check and Initial Operation	20
First Fire and Lighting Instructions (CAUTION)	21
Lighting Instruction on Rating Plate	22
Glass Door Removal / If Your Glass Should Break	23
Optional Bay Door Installation Instructions	24
Troubleshooting Guide	25 - 26
Maintenance and Cleaning the Appliance	27
Servicing Under Warranty and Adjusting Primary Air	28
Adjusting Primary Air (Continued) and Changing Main Burner Orifice	29
Checking Inlet/Outlet gas pressures, Adjusting Pilot and Convertible Pilot Orifice	30
Replacing Convection Blower & Wiring Diagram	31
Valve Tray Assembly and Parts List	32
FiberFlame Logs & Burner Bed Assembly and Parts List	33
Replacement Parts List - General Parts	34 - 35
Warranty	36
Frequently Asked Questions	37
Notes	38
Warranty Registration Card	40

CAUTION

FOR YOUR SAFETY - Do not install or operate your Archgard Optima 32-1 Direct Vent Gas Insert without reading and understanding this manual. Any installation or operational deviation from this instruction manual voids the Archgard Industries Warranty and may prove hazardous.

This appliance must be installed by a qualified gas installer and the installation must conform to the installation codes.

Provide adequate clearance around air openings of the appliance.

Never obstruct front openings.

Provide adequate clearances for proper operation and servicing of the appliance.

This appliance must be properly connected to an approved venting system and must not be connected to a chimney flue serving a separate solid fuel burning appliance.

SAFETY

Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.

Children and adults should be alerted to the hazards of high surface temperature and stay away to avoid burns or clothing ignition.

Young children should be carefully supervised when they are in the same room as the appliance.

Clothing or other flammable material should not be placed on or near the appliance.

Do not operate with cracked or broken glass. Be careful not to strike or slam the glass.

Any safety screen or guard removed for servicing an appliance must be replaced prior to operating.

Installation and Repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding materials, et cetera. It is imperative that the control compartments, burners and circulating air passageways of the appliance are kept clean.

Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

APPLIANCE CERTIFICATION

This appliance is tested and certified to the following USA and Canadian gas appliance standards.

- ANSI Z21.88b-2003 / CSA 2.33b-2003, Vented Gas Fireplace Heaters,
- CAN/CGA-2.17-M91, Gas-Fired Appliances for Use at High Altitudes

Please contact Archgard Industries Ltd., if you have any questions regarding the certification of this appliance.

INSTALLATION CODES

This appliance must be installed by a qualified gas appliance installer.
The installation must conform with the local codes or, in the absence of local codes, with the current National Fuel Gas Code, ANSI Z223.1/ NFPA 54, in the US or Installation Code, CAN/ CGA-B149, in Canada. Electrical connections and grounding must conform with local code, or current National Electrical code, ANSI/NFPA No. 70-1987, in the US and in Canada, the current Canadian Electrical Code, CSA C22.1.

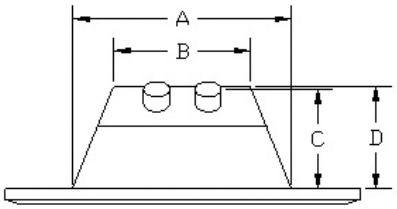
SPECIFICATIONS

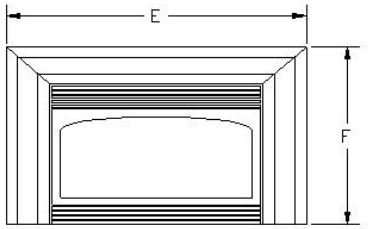
	Natural Gas (NG)	Propane (LP)
Manifold Pressure	1.6 - 3.5 in. w.c. (0.4 - 0.9 kPa)	6.3 - 10.0 in. w.c. (1.6 - 2.5 kPa)
Min. Supply Pressure **Max. Supply Pressure**	4.5 in. w.c. (1.2 kPa) 14.0 in. w.c. (3.5 kPa)	11.0 in. w.c. (2.8 kPa) 14.0 in. w.c. (3.5 kPa)
Orifice Size	#35 DMS (2.8 mm dia)	#51 DMS (1.72 mm dia)
Nominal Input Rating	23,000 - 34,000 BTU/hr (6.7 - 9.8kW)	26,000 - 34,000 BTU/hr (7.7 -9.8kW)
Electrical Rating	120 volt (a/c), 2.0 amp, 60 Hz.	120 volt (a/c), 2.0 amp, 60 Hz.
Gas Control	Milli-Volt (Quick Drop-out), Hi/Lo	Milli-Volt (Quick Drop-out), Hi/Lo
Altitude	0 - 4,500 ft. (0 - 1372 M)	0 - 4,500 ft. (0 - 1372 M)
Primary Air Opening	50% OPEN	FULLY OPEN

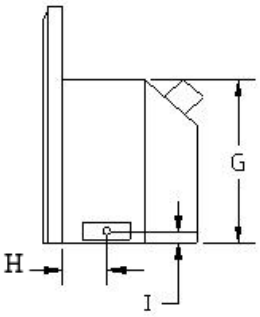
HIGH ALTITUDE INSTALLATION

When installing this appliance beyond 4500 ft. (1372 M) above sea level, the appliance must be properly de-rated and installed according to local codes, in the absence of local codes, with the current National Fuel Gas Code, ANSI Z223.1/ NFPA 54, in the US or Installation Code, CAN/CGA-B149, in Canada.

APPLIANCE DIMENSIONS







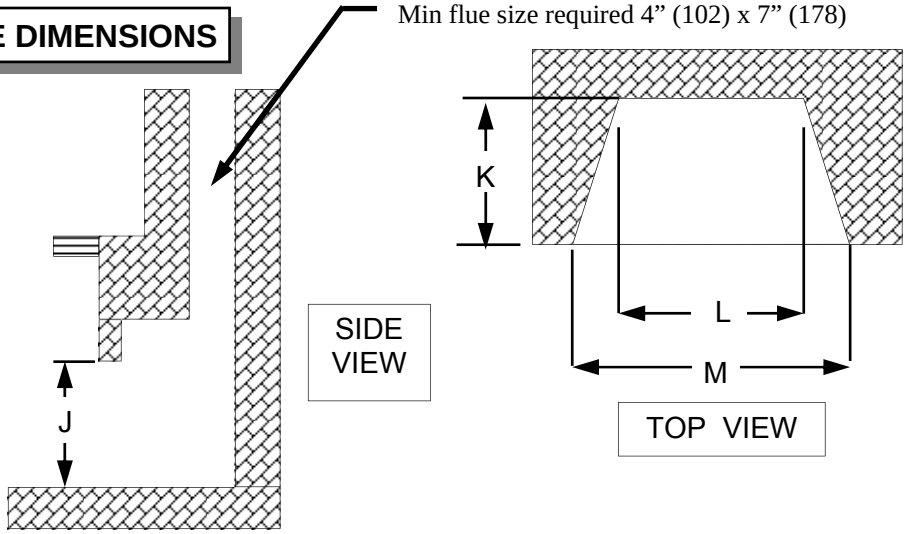
	DIMENSIONS
A	25-5/8” (651 mm)
B	16” (406 mm)
C	14” (356 mm)
D	14-1/8” (359 mm)
	DSK-32 or ESK-32 (STANDARD SUR-ROUND)
E	41-1/2” (1054 mm)
F	27-3/4” (705 mm)
	LSK-32 (LARGE FLAT SURROUND)
E	47-1/2” (1207 mm)
F	30-3/4” (7457 mm)
G	19-7/8” (505 mm)
H	3-3/4” (93 mm)
I	1-1/4” (32 mm)

Warning: Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

The installer must mechanically attach the marking supplied with the gas fireplace insert to the inside of the firebox of the fireplace into which the gas fireplace insert is installed.
Cutting of any sheet-metal parts of the fireplace, in which the gas fireplace insert is to be installed, is prohibited.
If the factory-built fireplace has no gas access hole (s) provided, an access hole of 1 1/2” (37.5 mm) or less may be drilled through the lower sides or bottom of the firebox in a proper workmanship-like manner. This access hole must be plugged with non-combustible insulation after the gas supply line has been installed.
The fireplace flue damper can be fully blocked open or removed for installation of the gas fireplace insert.
The fireplace and fireplace chimney must be clean and in good working order and constructed of non-combustible materials. The chimney cleanouts must fit properly.
Refractory, glass doors, screen rails, screen mesh and log grates can be removed from the fireplace before installing the gas fireplace insert.
Smoke shelves and baffles may be removed if attached by mechanical fasteners. Trim panels shall not seal ventilation openings in the fireplace.

MINIMUM FIREPLACE DIMENSIONS

	DIMENSIONS
J	20” (508 mm)
K	15-3/4” (400 mm)
L	16-1/2” (419 mm)
M	27” (685 mm)



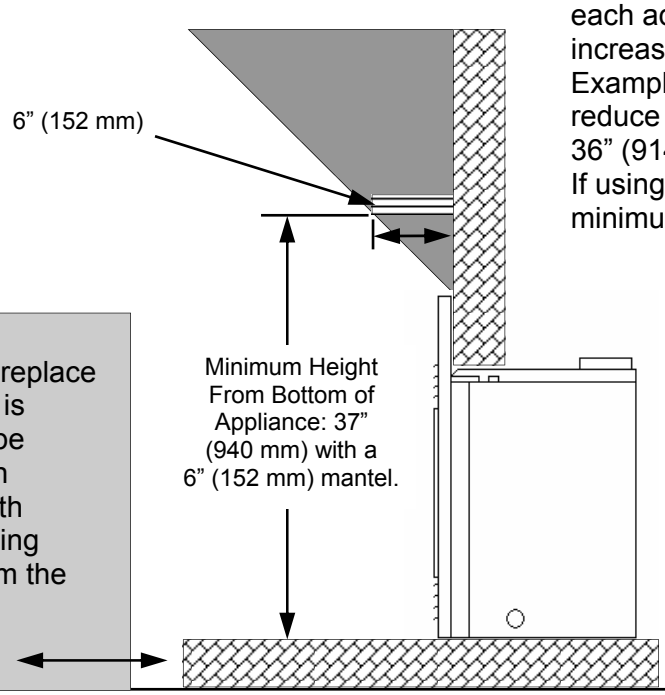
CLEARANCES TO COMBUSTIBLES

WARNING: Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury or loss of life.

CAUTION: This appliance is designed for used in any masonry or factory built wood burning fireplace. It cannot be enclosed by combustible material and used as a built-in gas fireplace.

SIDE VIEW

Combustible mantle allow in shaded area. Mantle extension maybe increased 1” (25 mm) for each additional 1” (25 mm) increase in clearance height.
Example: If using a 5” (127 mm) reduce minimum height to 36” (914 mm).
If using a 4” (100 mm) reduce minimum height to 35” (889 mm)

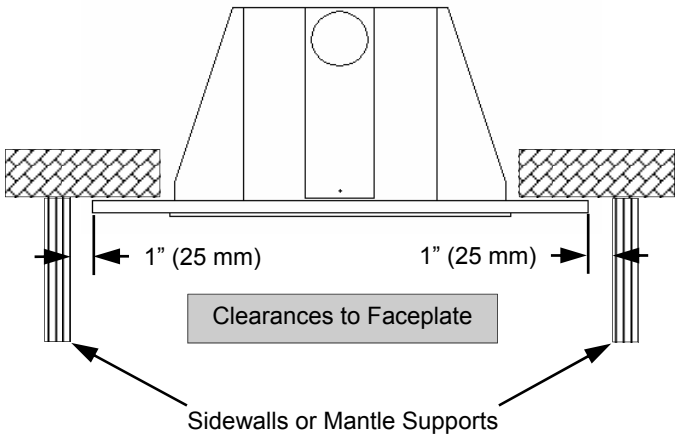


Note:
If existing wood fireplace hearth protection is removed it must be replaced by a non combustible hearth protection extending 16” (406 mm) from the front of the fireplace insert.

Note: With bay window attached clearances remain the same.

TOP VIEW

Minimum 1” (25 mm) clearance is required from the faceplate (fireplace surround) to a sidewall or mantle support. See APPLIANCE DIMENSIONS for surround sizes.



GAS CONNECTIONS

Before connecting the appliance to the gas supply line, double check that the appliance you have purchased is designed for the gas type you are using. The gas type markings are located on the certification label and also on the appliance's gas valve.

Adequate clearance for proper installation and checking of the gas connections must be provided. **All gas connections must be checked for gas leaks.**

Have your gas supplier or a qualified gas fitter run a gas supply line into the fireplace. The line must be properly sized and fitted according to the installation codes. Immediately up stream of the supply connection, the fitter shall provide an accessible manual shut-off valve and a 1/8 (3 mm) NPT plugged tapping accessible for connection to a test gauge. When connecting the supply line to the gas valve, the installer shall brace the gas valve to ensure that gas valve is not moved from its bracket. If the valve is not braced when the supply line is connected, the valve may be moved and cause a "break" in the main burner supply line. Such damage is not covered by the manufacturer's warranty.

CAUTION: The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure-testing of that system at test pressures in excess of 1/2 psig (3.5 kPa). The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure-testing of the gas supply piping system at test pressures equal to or less than 1/2 psig (3.5 kPa). Failure to do so will damage the appliance's gas valve. Such damage is not covered by the manufacturer's warranty.

Natural Gas Pressure Settings:
The inlet supply or line pressure must be a minimum of 4.5" wc (1.1 kPa) and a maximum of 8" wc (2 kPa). The orifice is a #35 DMS (2.79 mm) drill size.

ELEVATION	INPUT RATING
0-4500 ft (0-1372 M)	34,000 BTU/hr (9.8 kW)
4500 ft (1372 M) and above.	34,000 BTU/hr (9.8 kW) less 4% per 1000 ft. (305 M)

Please contact your local utility or distributor for the appropriate orifice size you require.

Propane Pressure Settings:
The inlet supply or line pressure must be a minimum of 11" wc (2.8 kPa) and a maximum of 14" wc (3.5 kPa). The orifice is a #50 DMS (1.79 mm) drill size.

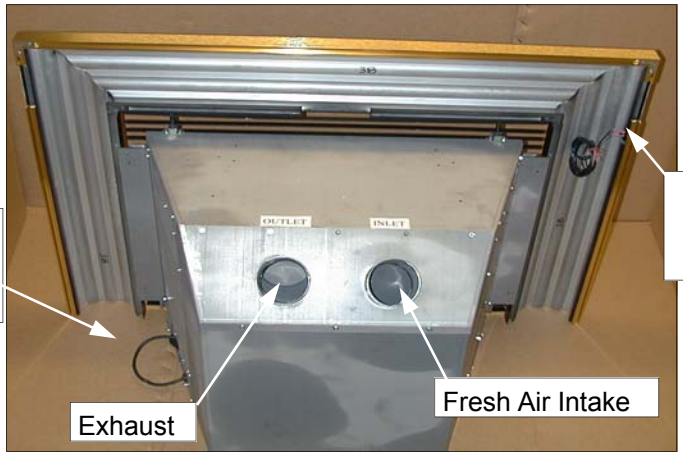
ELEVATION	INPUT RATING
0-4500 ft. (0-1372 M)	34,000 BTU/hr (9.8 kW)
4500 ft. (1372 M) and above.	34,000 BTU/hr (9.8 kW) less 4% per 1000 ft. (305 M)

Please contact your local utility or distributor for the appropriate orifice size you require

NOTE: THE INPUT RATING SHOULD ALWAYS BE CHECKED WHEN FIRST RUNNING THIS APPLIANCE. To do this, reduce the background flow rate, time the meter, light the fireplace and take another reading after 15 minutes of operation. Check with your gas supplier for the gas BTU content at your elevation. Input is the rate of flow multiplied by the heating value of the gas (cubic feet/hour x BTU per cubic feet). Adjust the manifold pressure so that the unit does not operate above the rated input.

APPLIANCE DESCRIPTION

TOP VIEW



FRONT VIEW

Surround "Faceplate"
Ceramic Brick "panel" liner
FiberFlame Log Set & Burner System
Top "grill" louver
Ceramic Glass with standard black arch door frame
Bottom "grill" louver

LEVELING THE OPTIMA 32-1 DIRECT VENT INSERT

Before placing the appliance into the fireplace, check the hearth of the fireplace to see if it is level with the front of the fireplace. If it is not, measure the depth of the hearth. Loosen the three screws of the leveling "L" bracket at the back of the appliance. Lower it to the measurement obtained and tighten the screws.

ELECTRICAL CONNECTIONS

The Optima 32-1 comes complete with a temperature activated fan and rheostat installed and wired to a three-prong (grounding) plug for your protection against shock hazard and should be plugged in directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from this plug.

NOTE: This appliance, when installed, must be electrically grounded in accordance with local codes or, in the absence of local codes, with the **National Electrical Code, ANSI/NFPA 70**, or the **Canadian Electrical code, CSA C22.1.**

VENTING INSTRUCTIONS

WARNING: Operation of this heater when not connected to a properly installed and maintained venting system can result in carbon monoxide (CO) poisoning and possible death. The appliance must not be connected to a chimney flue serving a separate solid fuel burning appliance.

Caution: Only two 3" (76 mm) "FLEX-MASTER" Model GA gas flex vent liners (or approved equivalent) and a vent terminal is approved for use with this appliance.

Approved vent terminals are:
Archgard terminal. Part # TK-40/32.
Simpsons Dura-Vent terminal. Part #980, 923GK (adaptor with flashing) or 991 (high wind cap)
NO OTHER VENTING SYSTEM OR COMPONENTS MAY BE USED. If you are using "Dura-Vent" vertical termination cap, follow the instructions provided with the "Dura-Vent" cap.

This appliance is designed to attach to two 3" (76 mm) co-linear aluminum flex gas liners running the full length of the chimney. The flue length must be a minimum of 8' (2.44 M) and a maximum of 35' (10.6 M) **(The exhaust vent restrictor provided with this appliance must only be used by installing it in the exhaust collar, before attaching the flex liner, on Natural gas units with vent heights to 20' (6.1 M) restrictor #1 20' and above restrictor #2).** Also refer to the following page for details. The minimum flue size is 4" x7" (100 mm X 178 mm).
Masonry chimneys may take various contours which the flexible liner will accommodate, however, keep the flexible liner as straight as possible, avoiding unnecessary bending but at all times keep a minimum of 3" (76 mm) inside bend radius.

The Air Intake Flex Liner must be connected to the inlet air collars of the termination cap and the appliance. The Exhaust Flex Liner must be connected to the exhaust collars of the termination cap and the appliance. **(DO NOT MIX-UP THESE CONNECTIONS).**

The Air intake and Exhaust connections are marked on the gas appliance. See Fig. 1.

CAUTION: To ensure that the venting path is not accidentally obstructed or punctured, the damper of the host fireplace must be permanently disabled by either complete removal of the damper, or welding it in its "open" position. Temporarily disabling the damper with braces, wedges, brackets, etc., is not allowed.

The Optima 32 showing the Exhaust and Fresh Air Intake locations. These connections are labeled for you.

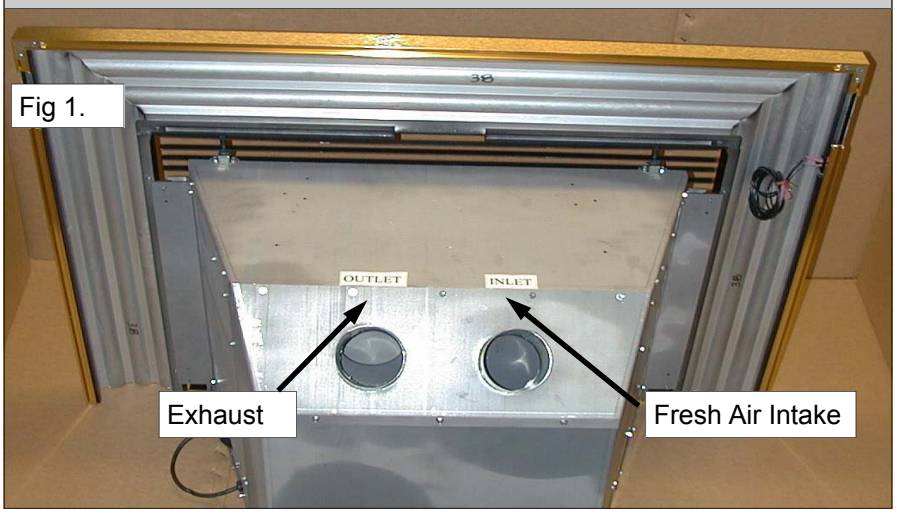


Fig 1.

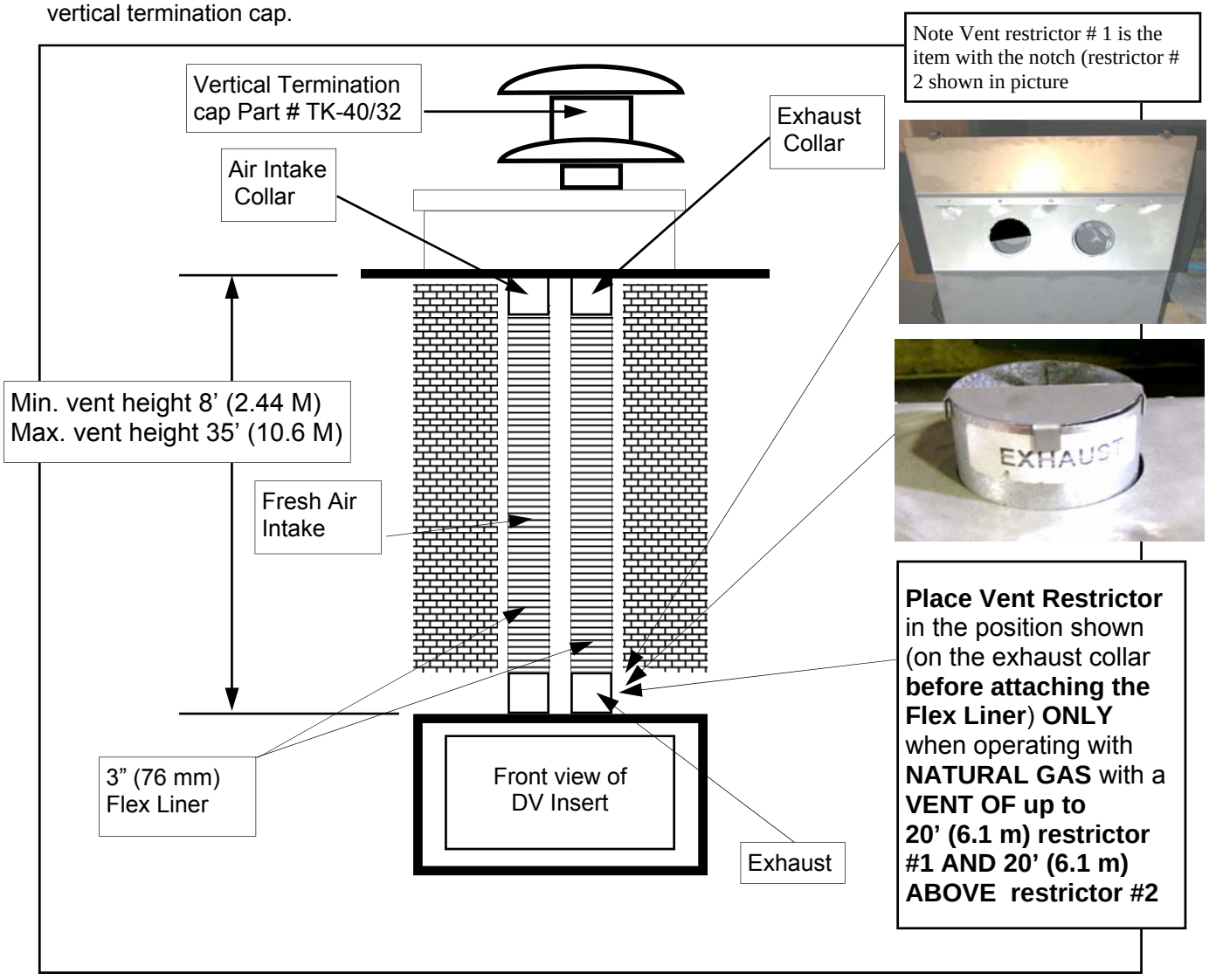
The Optima 32 Requires two Flexible gas flue liners
Flue Collar (inlet) - 3" (76 mm) diameter
Flue Collar (outlet) - 3" (76 mm) diameter

VENTING INSTRUCTIONS TK-40/32

Instructions for use with Archgard vertical termination cap. Part # TK-40/32.
Install the termination cap being sure to provided sufficient space (around and on top) so as not to impede the flow of air, both into and out of the cap. This cap is only to be used for non combustible installations. Do not recess into the top of the chimney.

1. Mark each end of one liner with **"Air Intake".**
2. Mark each end of the second liner with **"Exhaust".**
3. Pull the liner through the chimney.
4. Install the flashing. **Do Not bend or cut the flashing in any way.**
5. Seal and attach the liner marked **"Air Intake"** to the vent terminal pipe marked **"Air Intake"** with the collar clamp provided.
6. Seal and attach the liner marked **"Exhaust"** to the vent terminal pipe marked **"Exhaust"** with the collar clamp provided.
7. Seal and attach the end of the flex marked **"Air Intake"** to the collar marked **"Air Intake"** on the appliance with the collar clamp provided with the unit.
8. **Install the exhaust vent restrictor provided with the unit on Natural Gas appliances with 20' (6.1 M) and above vent height installations ONLY** Seal and attach the end of the flex marked **"Exhaust"** to the collar marked **"Exhaust"** on the appliance with the collar clamp provided with the unit..
10. Caulk all joints as usual.

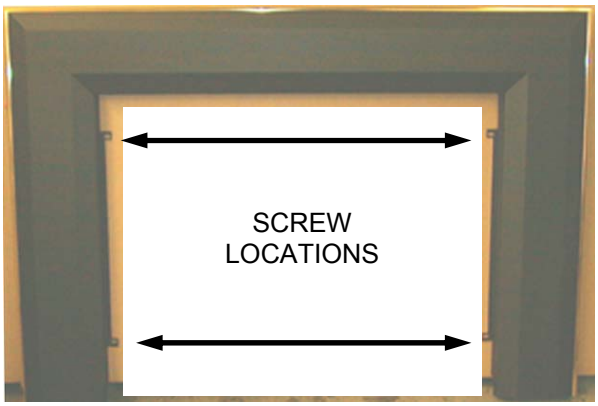
NOTE: The vertical termination cap must be sealed to the liner with suitable high temperature sealant and with the hose clamps fasteners provided. The liners must form a complete connection from the appliance flue collars to the vertical termination cap.


Vertical Termination cap Part # TK-40/32
Air Intake Collar
Exhaust Collar
Min. vent height 8' (2.44 M)
Max. vent height 35' (10.6 M)
Fresh Air Intake
3" (76 mm) Flex Liner
Front view of DV Insert
Exhaust
Note Vent restrictor # 1 is the item with the notch (restrictor # 2 shown in picture
EXHAUST
Place Vent Restrictor in the position shown (on the exhaust collar **before attaching the Flex Liner**) **ONLY** when operating with **NATURAL GAS** with a **VENT OF up to 20' (6.1 m) restrictor #1 AND 20' (6.1 m) ABOVE restrictor #2**

The minimum flue (chimney) size required to run the two 3" (76 mm) is 4" x 7" (100 mm X 178 mm)

SURROUND INSTALLATION

Make sure the gas and electrical lines are properly connected to the appliance. Slide the unit into the fireplace and slide the excess flue liner material back onto the chimney. Before the appliance is fully recessed into the fireplace, attach the surround onto the appliance. The return flange on the side of the surround fits on the inside of the mounting rails on the appliance. Attach the surround to the appliance at the locations shown with the four (4) screws provided. Then finish with the wiring connection to the on/off switch on the side of the trim. Now fully "seat" the unit into its final position.



CAUTION:
Only Trim kit (s) supplied by the manufacturer shall be used in the installation of this appliance.

Trim Instructions for the Surround for the DSK, ESK & LSK Surround

1. Using the trim clips provided, join the left side trim (which has a notch cut for rocker switch) to the top trim as shown in (Fig.1). Repeat with the right side trim.
2. Peel the backing from the sticky tape, then slip the assembled trim over the surround.
3. Locate the rocker (on/off) switch (with the ON side up) and push it in the notch located on the left side.
4. Remove the coiled wires from the left side of the firebox and connect it to the rocker switch tabs.
5. The switch wires have crimped connections that are factory installed. Simply connect the crimped connections to the on/off (rocker) switch located on the surround.

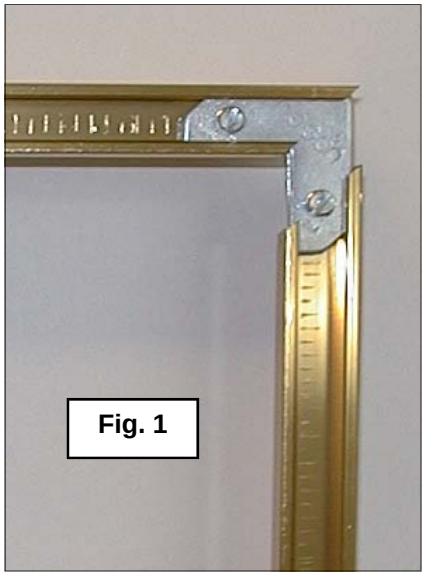


Fig. 1

Fig. 2

OPTIONAL WALL SWITCH OR THERMOSTAT

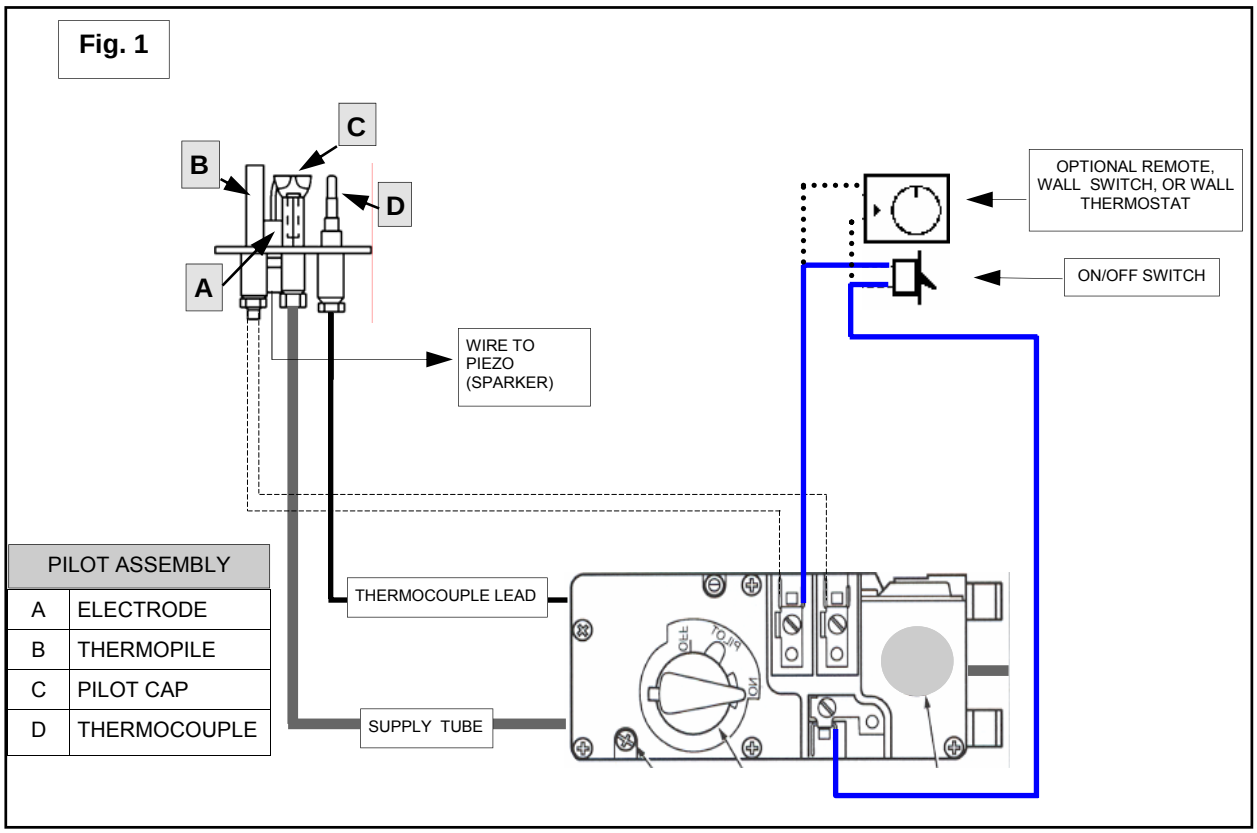
If a wall-mounted switch or a wall-mounted thermostat is desired, Archgard recommends that the device be wired as shown in Fig 1. This will allow the original on/off rocker switch to be used in case the device that is mounted to the wall becomes inoperable.

Note: Archgard Industries does not manufacture or sell any wall switch or wall thermostat, and will not extend warranty to them.

Thermostat / wall switch wire table Recommended Maximum Lead Length for two wires.	
Wire Size	Max. Length
14 GA.	50 Ft. (15.24 M)
16 GA.	32 Ft. (9.75 M)
18 GA.	20 Ft. (6.9 M)
20 GA.	12 Ft. (3.65 M)
22 GA.	9 Ft. (2.74 M)

VALVE CONNECTION for MILLIVOLT VALVE

Fig. 1



PILOT ASSEMBLY	
A	ELECTRODE
B	THERMOPILE
C	PILOT CAP
D	THERMOCOUPLE

LOG PLACEMENT

The Archgard “FiberFlame Technology Burner System” of ceramic logs is designed to give a realistic fire package, and created to look the same as the day they were originally installed. Care must be given when first installing the logs, and if removed for servicing, as they can be damaged or broken if not handled properly.

After opening the log set package, inspect the logs to ensure that no damage has occurred inside the package. Please report any damage immediately to your Authorized Archgard Dealer.

Gas and vent connection must be made before installing the logs on the “FiberFlame” bed.

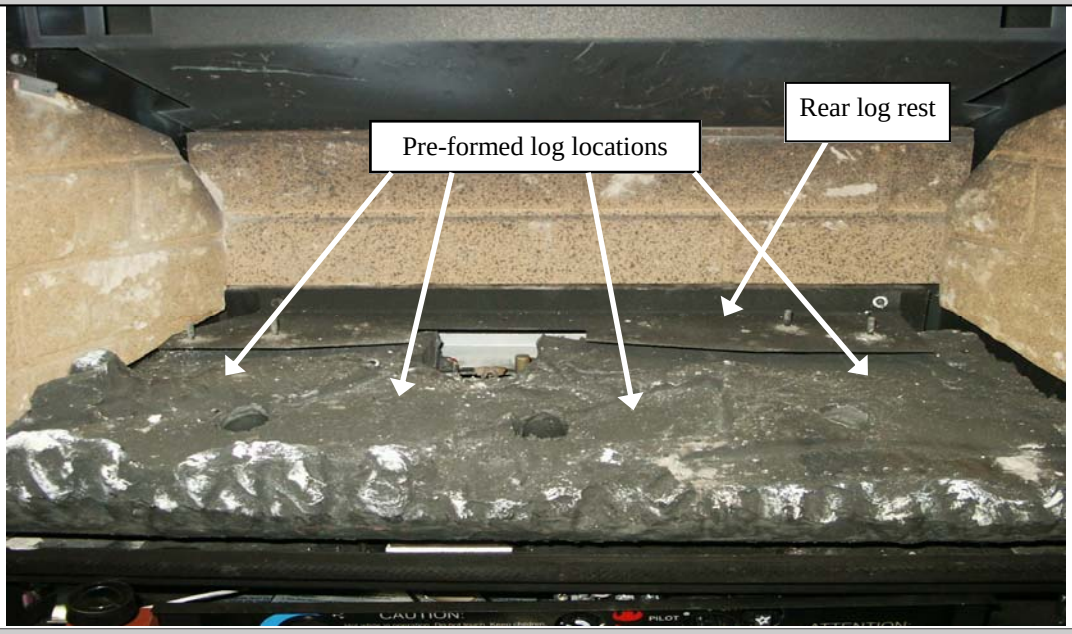
NOTE: Improper placement of logs may cause sooting on the internal parts and glass, and will not be covered under warranty. Do not use broken or damaged logs.

WARNING:
Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.

The ember bed is pre-formed to accept the first four “base” logs. Locate the first four base logs, and place them on their perspective locations. Refer to the pictured instructions on the following pages that will show how to place all seven (7) logs. The bottom of each log has a 2 digit code that can be used as a reference to help locate the correct log.

IMPORTANT: DO NOT PLACE ANY LOGS OVERTOP OF THE BURNER “PORTS”.

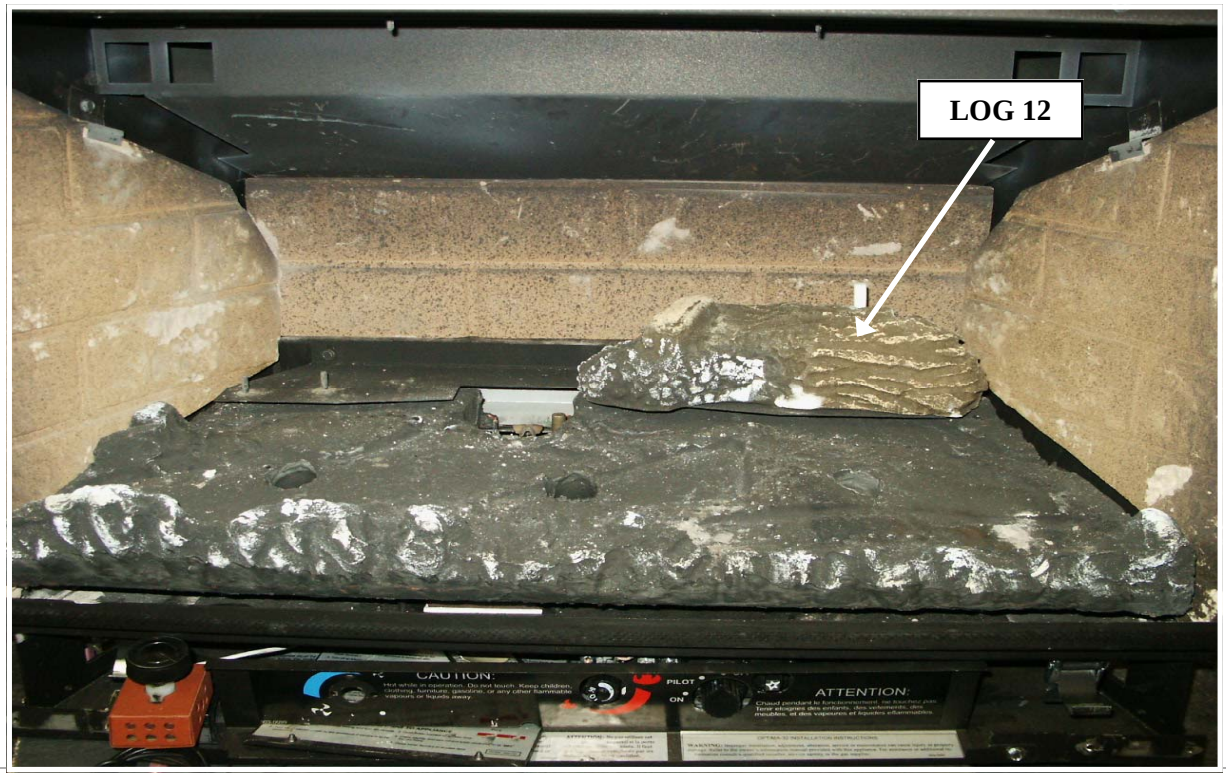
FiberFlame Burner Bed and Rear Log Rest



NOTE:
Installing the “FiberFlame” Ceramic logs in any other position other than shown will result in flame impingement causing sooting of the logs, brick liner and ceramic glass viewing area.

LOG PLACEMENT... Continued

Step 1. Locate Log with 12 stamped on the bottom and place it on the log rest as shown.



Step 2. Locate Log with 80 stamped on the bottom and place it on the log rest as shown.

LOG PLACEMENT... Continued

Step 3. Locate Log with 74 stamped on the bottom and place it on the ember bed as shown.

Step 4. Locate Log with 69 stamped on the bottom and place it on the ember bed as shown.

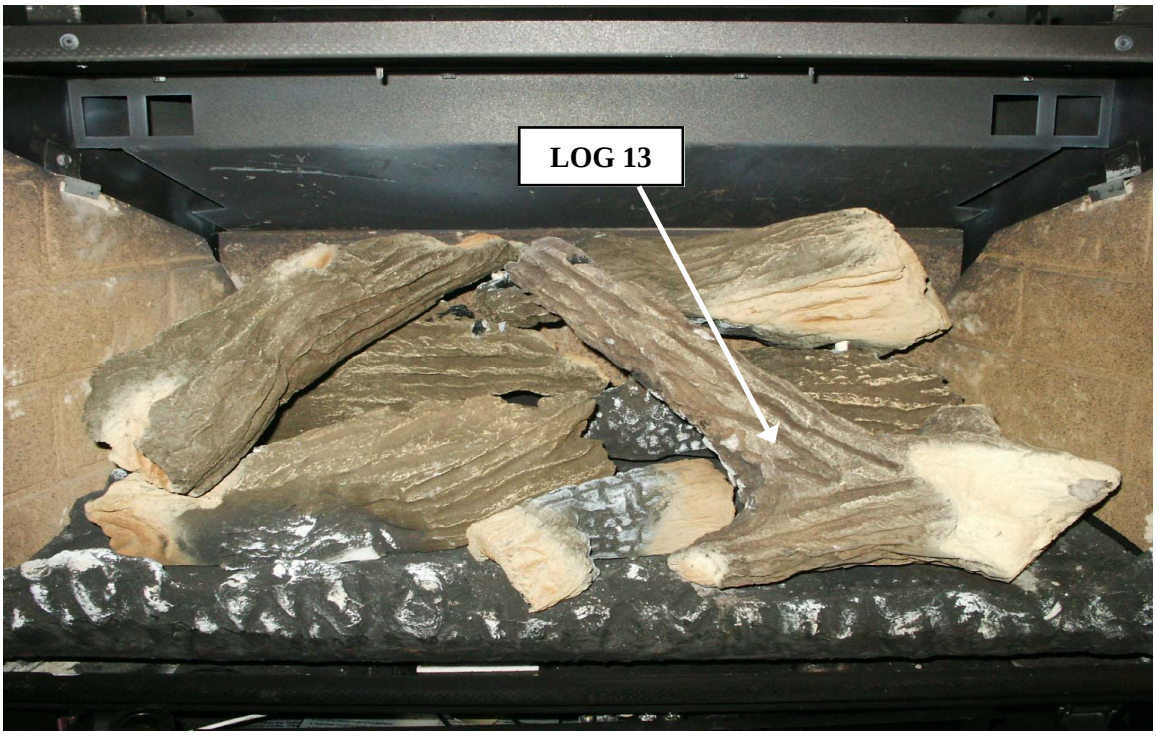
LOG PLACEMENT... Continued

Step 5. Locate Log with 82 stamped on the bottom and place as shown.

Step 6. Locate Log with 83 stamped on the bottom and place as shown.

LOG PLACEMENT... Continued

Step 7. Locate Log 13 and place it as shown.



CERAMIC BRICK PANELS

The Optima 32-1 comes with a set of Ceramic Brick Panels. They are factory installed for your convenience, therefore no adjustments should be made. If you find any damage to the Ceramic Brick Panels please contact your Authorized Archgard Dealer who sold you this appliance to order replacements.

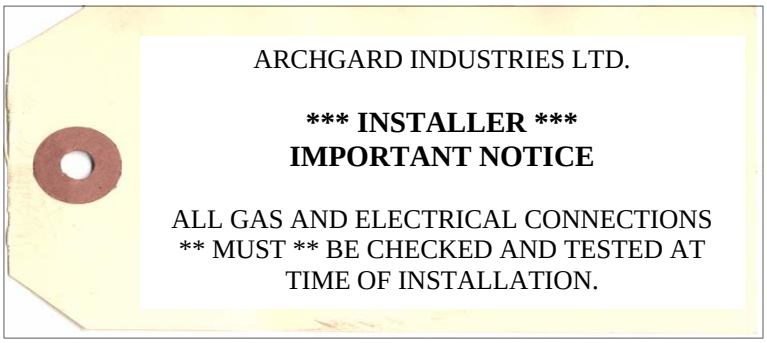
FINAL INSTALLATION CHECK

Each Archgard Gas Fireplace is checked and tested at the factory prior to being packaged and shipped to our dealers, and finally installed in your home. Archgard recommends that before leaving this unit with the customer, the installer must ensure that the appliance is firing correctly and that the electrical system is in working order. **This will include:**

1. Pre-form Leak tests of supply line, gas control valve, supply line from gas control valve and pilot assembly.
2. Clocking the appliance to ensure the correct firing rate (see page 9 of this manual).
3. If required, adjusting the primary air to burner to ensure that the flame does not carbon or soot. (see page 28 of this manual) .
4. Check for proper operation including correct drafting.
5. The FAN system should be turned ON for a minimum of 10-15 minutes to ensure that the fan, rheostat and fan sensor are all working correctly. After the system has been checked, and confirmed that the fan components are in working order, turn the fan system OFF and refer to the instructions for FIRST FIRE located in this manual.

As a reminder, a TAG is attached to all of our gas fireplaces. This TAG is located at the gas control valve. See Fig 1.

Fig 1.


ARCHGARD INDUSTRIES LTD.
*** INSTALLER ***
IMPORTANT NOTICE
ALL GAS AND ELECTRICAL CONNECTIONS
** MUST ** BE CHECKED AND TESTED AT
TIME OF INSTALLATION.

Any alteration to the product that causes carboning or sooting that results in any damage or requires cleaning is not the responsibility of the manufacturer.

INITIAL OPERATION

1. Check that the appliance is properly vented and connected to the gas supply.
2. Check that the logs and branches are properly placed.
3. Check that all external parts, such as grills, door and faceplate are properly attached and fastened.
4. Do not operate this appliance with broken, cracked glass doors or without the door (s) in its correct (and latched) position. Do not abuse the glass by either striking or slamming shut.
5. Check that there are no finger prints left on gold surfaces or glass panels as high temperature can bake these prints permanently.

FIRST FIRE

When operated for the first few times, the appliance will emit some odor and fumes. This is due to the heat from the appliance evaporating the oils and solvents used in fabricating the appliance. Close off the room to the rest of the house and open all windows. Keep the room well ventilated as smoke alarm may sound. Run the appliance for at least 6 hours at maximum setting with blower set to “OFF” to allow paint to cure (after the installer has checked to ensure the fan is operational). Smoke and fumes caused by the curing process may cause discomfort to some individuals.

LIGHTING INSTRUCTIONS - CAUTION

WARNING : If you do not follow these instructions exactly, a fire or explosion may result, causing property damage, personal injury or loss of life. Do not operate the appliance with the glass front removed, cracked or broken. Replacement of broken glass should be done by a licensed or qualified service person.

This appliance has a pilot which must be ignited using the sparker located next to the appliance valve controls. When lighting the pilot, follow the start-up procedures **exactly.**
See next page or rating plate for complete lighting instructions.

1. BEFORE LIGHTING, smell all around the appliance area for gas. Be sure to smell next to the floor, because some gases are heavier than air and will settle on the floor.
2. IF YOU SMELL GAS, follow the instructions on the front cover of this manual.
3. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, don’t try to repair it. Call a qualified service technician. Force or attempted repair of gas control knob may result in a fire or explosion.
4. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

LIGHTING INSTRUCTIONS ON RATING PLATE

FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING: If you do not follow these instructions exactly, a fire of explosion may result causing property damage, personal injury or loss of life.

A. This appliance has a pilot which must be lighted by a spark ignitor. When lighting the pilot follow these instructions exactly.

B. BEFORE LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

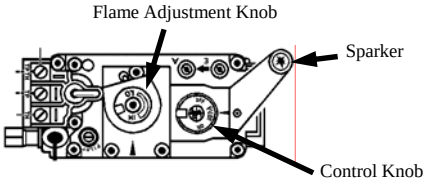
WHAT TO DO IF YOU SMELL GAS
- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in your building.
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand don't try to repair it, call a qualified service technician. Forced or attempted repair may result in a fire or explosion.

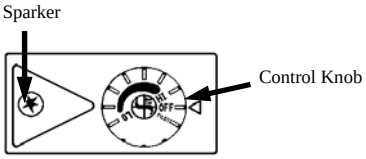
D. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

LIGHTING INSTRUCTIONS

1. STOP! Read the safety information above on this label.
2. Set the remote switch to "**OFF**". Set the thermostat to the lowest setting. (Only if your appliance is equipped with these devices.)
3. Turn off all electric power to the appliance.
4. Open lower louvers or access door.
3. Press slightly and turn the control knob clockwise ↻ to the "**OFF**" position.
4. Wait 5 minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! and follow instruction "**B**" above.
5. Find pilot. It is located between the logs near the center behind the burner.
6. Press slightly and turn control knob counterclockwise ↺ to "**PILOT**". Depress knob and light pilot by repeatedly pressing the sparker. Once flame is established, hold knob depressed for approximately 30 seconds. Release knob. If pilot should go out, repeat steps 3 to 5.
   - If the knob does not pop up when released, stop and immediately call your service technician or gas supplier.
   - If the pilot will not stay lit after serveral tries, turn the gas control knob to "**OFF**" and call your service technician or gas supplier.
7. If the appliance has a manual valve, turn gas control knob counterclockwise ↺ to the desired heat setting from "**LO**" to "**HI**". If the appliance has an automatic valve, turn gas control knob counterclockwise ↺ to "**ON**" and set the flame adjustment knob to the desired heat setting from "**LO**" to "**HI**".
8. Set the remote switch to "**ON**". Set the thermostat to the desired setting. (Only if your appliance is equipped with these devices.)
9. Turn on all electric power to the appliance.
10. Close louver or access door.



Automatic Valve



Manual Valve

Pilot

TO TURN OFF GAS TO APPLIANCE

1. Set the thermostat to the lowest setting and turn the remote switch to "**OFF**".
2. Turn off all electric power to the appliance if service is to be performed.
3. Open lower louvers or access door.
4. Press slightly and turn control knob clockwise ↻ to "**OFF**". Do not force.
5. Close lower louvers or access door.

303-0001 28MAY01

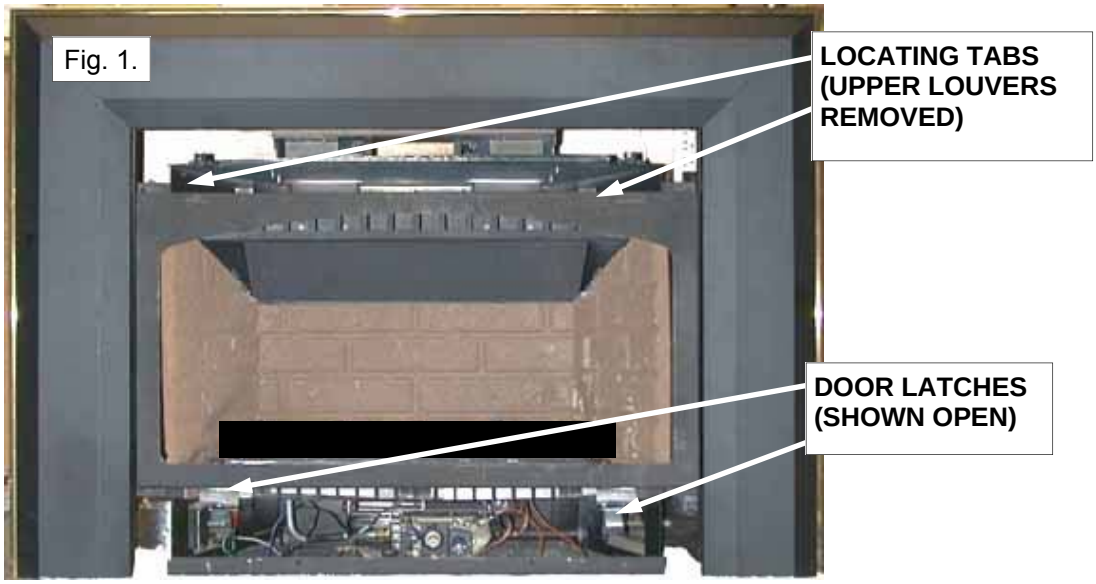
GLASS DOOR REMOVAL

WARNING: Do not operate appliance with the glass front cracked or broken. Replacement of the glass should be done by a licensed or qualified service person.

CAUTION: Do not attempt to remove the glass door when the appliance is hot.

1. Remove the TOP louver by pulling the entire louver assembly towards you.
2. Open up the BOTTOM louver assembly to expose the control valve.
3. Locate the 2 buckle latches under the glass door frame (Fig.1) and pull down the lever on the back of the latches to release them.
4. Unhook the latches from the bottom of the door and swing the bottom of the door towards you then lift up on the whole door to unhook the top of the door. Carefully remove the door and put it away at a safe location where it cannot be scratched or damaged.

Replacing the Glass Door
The reverse procedure of Removing the Glass Door.



IF YOUR GLASS BREAKS

In the event your glass cracks or breaks, Archgard recommends that a new door assembly be ordered to replace the original door.

- Remove door as per the instructions above.
- Replace with new door assemblies.

NOTE: the NEW door will emit some odor when the appliance is re-lit and the odor will dissipate after the gasket material within the door has cured.

Warning : Do not use substitute glazing materials

OPTIONAL BAY DOOR INSTALLATION

WARNING: THE OPTIONAL BAY DOOR BBAY-32 IS A DECORATIVE OPTION ONLY AND IS MANUFACTURED WITH TEMPERED GLASS. THIS UNIT MUST NOT BE OPERATED WITHOUT THE FLAT CERAMIC GLASS DOOR SECURED IN PLACE, BEHIND IT.

After opening the bay door package, inspect the door to ensure that no damage has occurred inside the package. Please report any damage immediately to your Authorized Archgard Dealer.

Installation of the Bay Door Option does not change any clearances stated on the rating plate/ or Installation Operation and Maintenance Manual accompanying the appliance.

NOTE: Ensure that the Heater is turned off and cool.

To install this Bay Door Accessory and Knob Extension Kit use the following instructions:

1 Remove the upper grilles by pulling the assembly forward.
2 Remove the lower grilles by removing the four hex head mounting screws that secure the brass hinges to the unit.
3 Discard the Upper and lower grilles (they are not required for Bay door installation).
4 Install the Hi/Low, On/Off and sparker extension knobs onto the corresponding knobs on the valve.
5 Move the Bay Door over the front of the insert, line up the slots in the upper area slightly above the corresponding tabs at the front top of the firebox, and push the assembly down.
6 Parts supplied with the kit: BBAY 32 door assembly,
308-0094 Hi/Lo Extension Knob
308-0095 On/Off Extension Knob
308-0096 Piezo Extension Knob
7 The lower (center) hinges down for control access.

CAUTION:
Only Trim kit (s) supplied by the manufacturer shall be used in the installation of this appliance.

TROUBLESHOOTING

Please check to make sure the instructions are followed exactly before attempting troubleshooting of the appliance.

WARNING: Troubleshooting and servicing of gas and electrical devices of the appliance should only be conducted by a qualified service technician.

SYMPTOM	ACTION
Pilot will not light after pressing the sparker many times.	1. When lighting the appliance for the first time after installation or after servicing, there is air in the gas line. It takes a while for all the air to purge out of the pilot before gas can reach the pilot and ignite. Remove the glass door and try lighting the pilot many times to purge the air. 2. Check to make sure the gas supply to the appliance is turned on and there is adequate gas supply pressure to the appliance. 3. Check for sparks between the spark electrode and the pilot head when the sparker is pressed. If there are no sparks, a. Check for broken or poor connection from the sparker to the electrode. b. Check for the spark shorting or arcing at other locations. c. Check for defective sparker. d. Check for defective spark electrode. 4. With the door removed, try lighting the pilot with a match. a. If air is blowing on the flame of the match, hold the control knob in at the '**PILOT**' setting until all the air is purged out of the line. b. If there is no gas or air coming out of the pilot and there is gas pressure to the appliance, the pilot orifice may be blocked or the gas valve may be defective.
Pilot will not remain on after being lit.	1. Press the control knob all the way in (at the "pilot" indicator). 2. Hold the control knob in for a longer period of time. 3. If you are trying to re-light the pilot immediately after you have shut-off the pilot, you have to wait 5 minutes for the valve to reset. (safety system built into the valve) 4. Check to see if the pilot flame is large enough to reach and surround the thermocouple. If the flame is too small, check for correct gas supply pressure. If pressure is good, adjust the pilot flame size with the adjustment screw on the valve. If the flame cannot be adjusted, there might be some debris obstructing the pilot orifice, or a wrong size pilot orifice. 5. Check for poor connection of the thermocouple to the valve. 6. Check for proper millivolts of the thermocouple. The thermocouple should generate at least 30 mV or it is defective. 7. Check for defective gas valve.
The main burner does not turn on with the pilot lit.	1. Check to make sure the control knob is turned to the '**ON**' position. 2. Allow enough time for the pilot to heat up the thermopile to generate sufficient voltage to activate the valve.

TROUBLESHOOTING Cont...

SYMPTOM	ACTION
The main burner does not turn on with the pilot lit. Cont...	3. Check to make sure the thermostat is set high enough to turn on the appliance. 4. Check that the remote switch or the thermostat is turned on. 5. Check for weak pilot flame. If the flame is weak, check gas supply, check pilot flame adjustment and check for blockage of pilot orifice. 6. Check all connections to the valve for tight electrical contact. 7. Check for 400-500 mV from the thermopile with the burner off and 200-250 mV with the burner on. If the voltages are lower, the thermopile is defective. 8. Check for defective gas valve.
The main burner shuts off when the appliance is warm.	1. This may be the normal operation of a wall thermostat installed to appliances. 2. Check for good pilot flames on the thermopile. 3. Check for good voltage from the thermopile. 4. Check for proper functioning of venting system (blocked) 5. If venting is suspected, refer to the venting section of this manual for proper venting practices. 6. Check wire connections. Expansion from heat affects a loose connection.
Sooty deposits on the glass door.	1. If the flame is yellow and lazy, check for lint etc. around primary air shutter. Increase primary air by opening the primary air shutter if necessary. 2. Check for proper placement of the logs and branches. Ensure logs and burner are clean. See that section in the instruction manual. 3. Check for proper venting and blockage of the vent termination. 4. Check manifold pressure and clock input rating for over-firing.
Sharp blue flames with flames lifting off the burner at the ends.	1. Too much primary air. Reduce primary air by closing the primary air shutter. During cold temperatures, some flame lifting may occur during start-up.
Convection blower does not turn on.	1. The convection fan is thermostatically controlled. It will only turn on when the appliance is warmed-up. This may take up to 15 minutes with the appliance on high. 2. Check for 120 VAC electrical supply to the appliance. (Is the cord plugged in?) 3. Check for proper mounting of the thermal snap disc. 4. Check electrical connections. 5. Check for defective thermal snap disc. 6. Check for defective convection blower speed controller. 7. Check for defective convection blower.

MAINTENANCE

CAUTION:
Do not conduct maintenance on the appliance while it is operating or while it is still hot.

CLEANING THE APPLIANCE

The exterior painted surfaces, glass and gold trims may be cleaned with a soft, non-abrasive cloth and water or a suitable, mild, non-abrasive cleaner.

Regularly:

- Frequent cleaning of the ceramic glass is required. Archgard recommends using a good quality “gas fireplace” glass cleaner that is available at any hearth retail location. DO NOT CLEAN WHILE HOT.
- Clean and remove any lint accumulations or debris from the grills and in any combustion and convection air passage ways.
- Keep the appliance area free from combustible materials, such as paper, wood, clothing, gasoline and flammable solids, liquids and vapors.
- Visually check the height and color of the burner and pilot flames.

Every 2 to 3 months:

- Remove the glass door and clean the inside of the glass with a good quality “gas fireplace” glass cleaner. DO NOT CLEAN WHILE HOT.
- Carefully remove the logs and gently brush off any loose carbon deposits. This job is best done outside the house, wearing a dust mask.The logs are very fragile, take care not to break them. **Do not wash logs with any liquid.** While the logs are removed, check that all burner openings are not obstructed and it is recommended you use a vacuum cleaner to clean off any dust or lint.
- After cleaning, the logs must be replaced as per the instructions in this manual.

Once a year, have a qualified service technician:

- Completely inspect the appliance and the venting system, if the vent pipe or seal is found to be defective, replace and or reseal (follow the instructions found in the installation section)
- Clean and remove any lint accumulations or debris in the firebox, on the burners, on the pilot, at the primary air opening, on the convection air blower and in any combustion and convection air passageways.
- Check the safety system of the gas valve and the appliance.

WARNING : All parts removed or disturbed, including guards and grills, must be properly replaced after maintenance. Service and repair must be conducted by a qualified service person. If these instructions are not followed, a fire or explosion may result, causing property damage, personal injury or loss of life.

SERVICING UNDER WARRANTY

Before servicing, read the terms and conditions of the Archgard warranty at the back of the manual. Contact the authorized Archgard dealer where you purchased the appliance from and provide them with details of the problem, together with the initial installation information (from the back of this manual).

WARNING: Servicing of this appliance **must be conducted by a qualified service technician**. Improper servicing, adjustment or alteration of this appliance may cause property damage, personal injury or loss of life. All servicing should be conducted with the appliance cold. All replacement parts must be authorized by Archgard for suitability.

ADJUSTING PRIMARY AIR

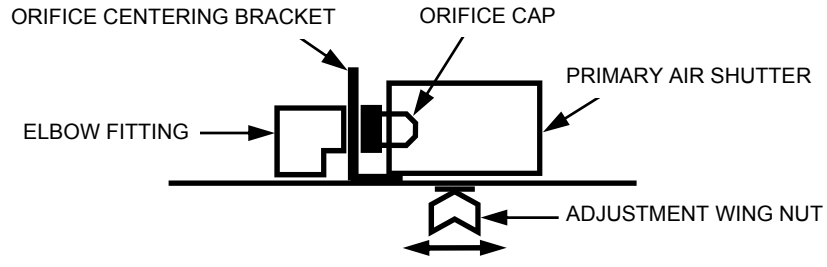
Note: the Shutter is set at the factory and normally only requires resetting at higher altitudes.
Caution: Wear gloves when adjusting the primary air with the appliance hot.

1. Open the lower grills.
2. Unscrew the 2 screws holding the control panel and remove the panel.
3. The primary air adjustment wing nut is located behind and to the left of the control valve.
4. Loosen the wing nut and slide the primary air shutter to the right to increase primary air and to left to reduce primary air.
5. Tighten the wing nut after adjustment.

Control Panel

Fig. 1.

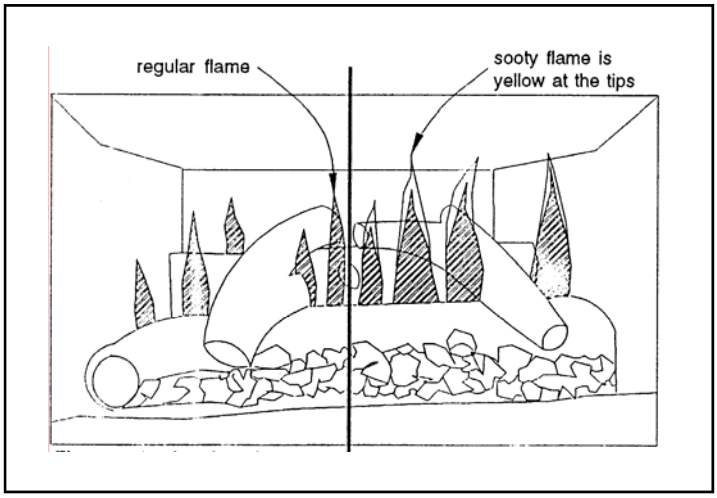
Air Shutter (side view)



ADJUSTING PRIMARY AIR

NOTE: Fig. 1. Is to give an example of what is a correct or incorrect flame pattern. It is not a true representation of what the Optima 32-1 will look like in your home environment.

Fig.1



FLAMES...

The left side shows correct adjustment. The right side shows yellow sooty flames requiring increase in shutter opening or cleaning of shutter area due to lint buildup.

CHANGING MAIN BURNER ORIFICE

1. Remove the glass door. Follow GLASS DOOR REMOVAL instructions within this manual.
2. Locate & slide the Primary Air Sleeve fully toward the left. This will allow the sleeve to disconnect from the burner tube. Follow ADJUSTING PRIMARY AIR instructions within this manual for reassembly.
3. Remove the logs from the FiberFlame bed. See LOG PLACEMENT for instructions.
4. Remove the two screws holding the log rest to remove it.
5. Unscrew the two mounting screws that are located at the back rear of the ember bed.
6. Carefully remove the ember bed by using your index fingers in the holes and carefully lift the ember bed (burner) out.
7. Use a 1/2” (13 mm) wrench to remove the orifice cap.
8. Change the orifice cap to the fuel type desired. Use a small quantity of gas thread seal compound. Do not overtighten.
9. Reverse steps 6 to 1.

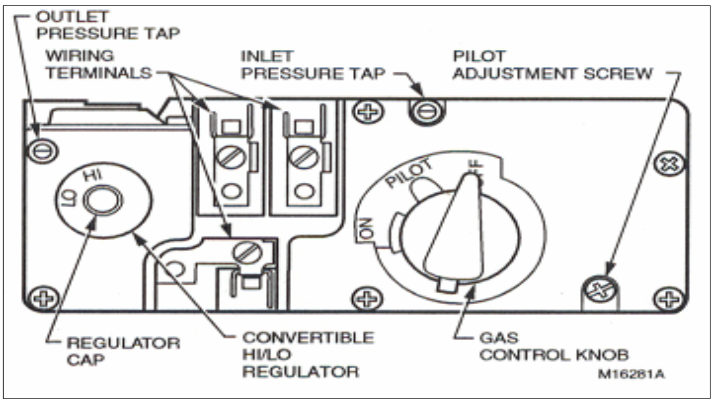
WARNING: When replacing the ember bed using the two screws, you MUST not over-tighten the screws. Leave the screws “FINGER-TIGHT” allowing the ember bed to “float”. This is required for expansion & contraction of the ember bed.

THIS APPLIANCE IS EQUIPPED FOR NATURAL GAS. An additional CONVERSION kit is required to convert for Propane use. To order the CONVERSION kit, please contact your Authorized Archgard Dealer.

CHECKING INLET AND OUTLET GAS PRESSURE

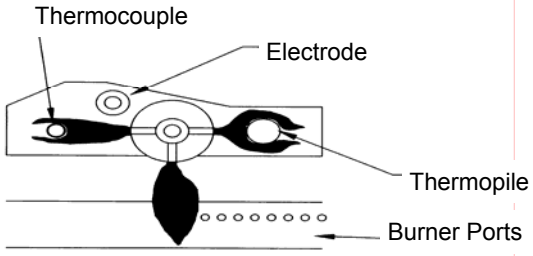
1. Open the lower grills.
2. The pressure test taps are located on the valve. The taps are located in the gas valve front face. The inlet is marked '**IN**' and the outlet is marked '**OUT**'. See Fig.1.
3. Loosen the set screw inside the tap with a ⅛" (3 mm) wide flat screw driver.
4. Connect a ¼" (6 mm) rubber tube to the tap post and a manometer.
5. Verify the readings obtained are within specs (as shown on the appliance rating plate)
6. Be sure to tighten the set screw inside the tap after you are finish taking pressure readings.
7. Check for leaks.

Fig.1.



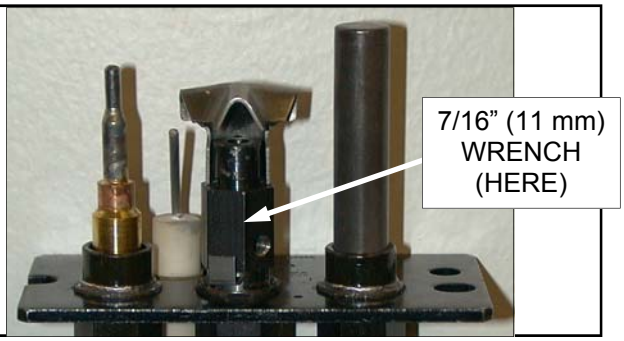
CHECKING AND ADJUSTING PILOT

The pilot flame should have the characteristic as shown in the illustration below. The flame should not have yellow tips but should engulf the thermocouple and thermopile. It can be adjusted be turning the screw marked "pilot" on the control valve.



CONVERTIBLE PILOT ORIFICE

The pilot assembly is convertible to the type of gas being used, simply unscrew the body by using a 7/16" (11 mm) wrench turn a 1/4 open then push the small metal tab across to the other side of the body and retighten. **Call your local Authorized Archgard Dealer to purchase the correct fuel conversion kit for your gas appliance.**



REPLACING CONVECTION BLOWER

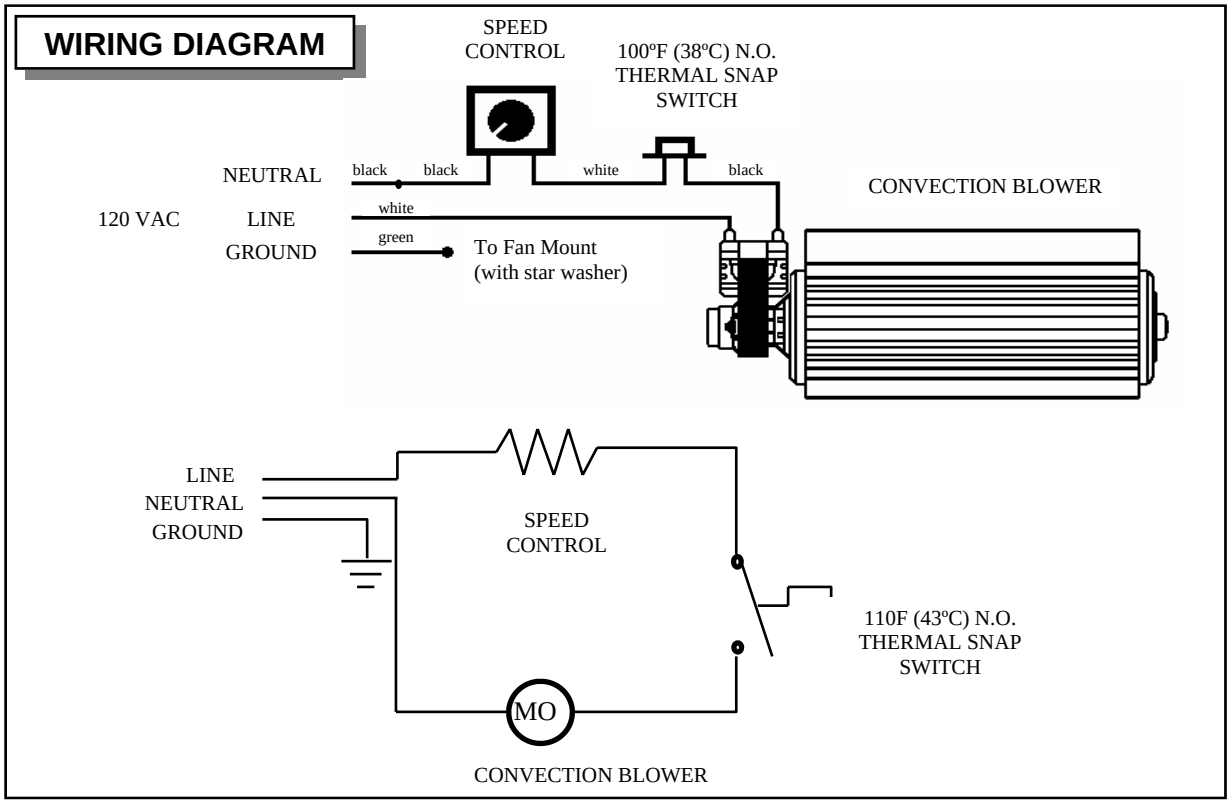
Caution: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.
This appliance, when installed, must be electrically grounded in accordance with local codes or, in the absence of local codes, with the **National Electrical Code, ANSI/NFPA 70**, or the **Canadian Electrical code, CSA C22.1.**

NOTES:

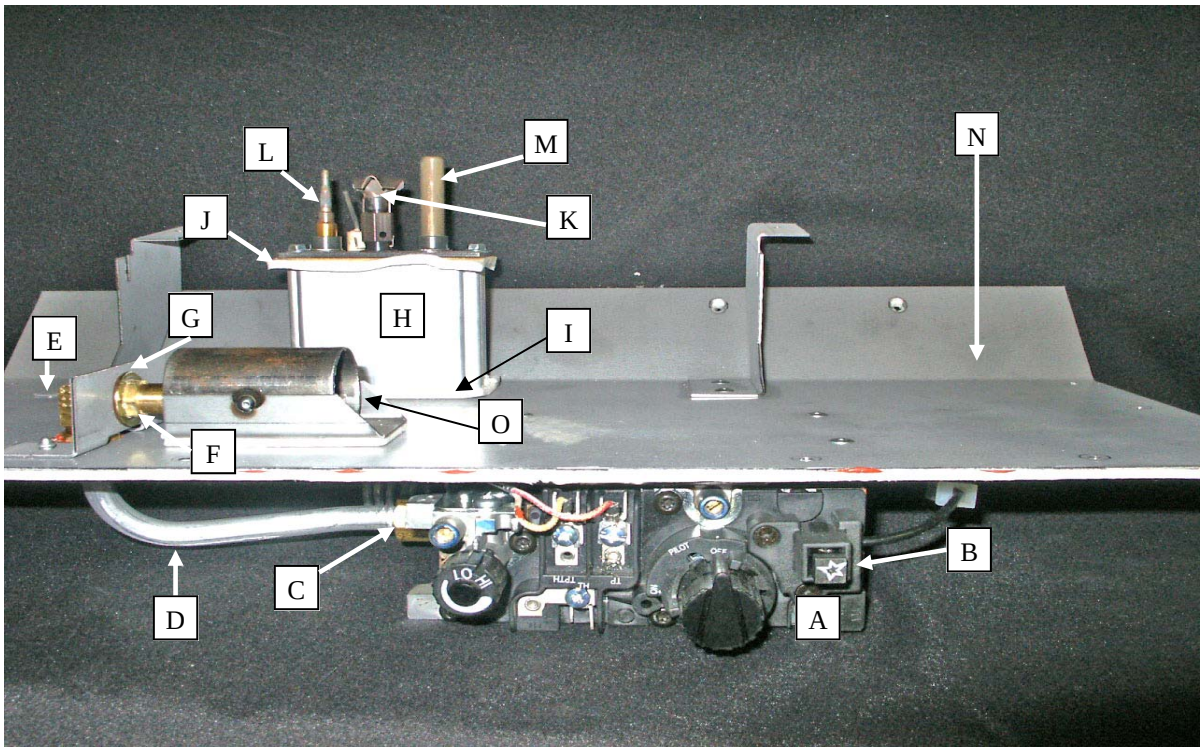
- Ensure that the main power and breaker system is turned OFF before removing the fan.
- Make sure the fireplace has been turned off and is cool to the touch.
- Mark all wires to be removed for proper reassembly.
- **CAUTION:** Wiring errors cause improper and dangerous operation.

1. Remove the glass door. Follow GLASS DOOR REMOVAL instructions within this manual.
2. Remove the FiberFlame log set. Follow LOG PLACEMENT instructions within this manual.
3. Remove the adjustment wing nut and slide the air shutter away from the orifice cap. Follow ADJUSTING PRIMARY AIR instructions within this manual.
4. Remove the FiberFlame Ember Bed. Follow CHANGING MAIN BURNER ORIFICE instructions within this manual.
5. Mark all wires to be removed for proper reassembly. **CAUTION:** Wiring errors cause improper and dangerous operation.
6. The convection blower is located at the bottom of the appliance at the back. Remove the three screws holding the blower.
7. Lift the blower out and disconnect the wires from the blower.
8. Reverse instructions after new fan is installed & tested.

WIRING DIAGRAM

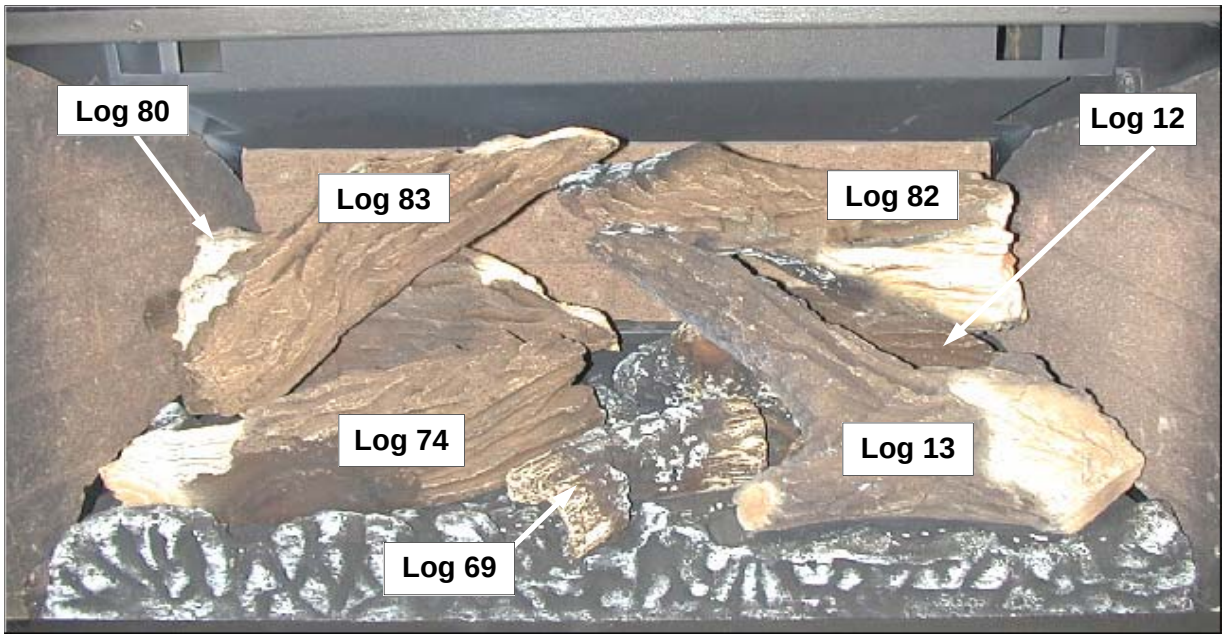


VALVE TRAY ASSEMBLY



	Item #	Item Description	Qty	Unit
A	308-0091	Valve HONEYWELL Hi/Low Natural Gas	1	EA
B	308-0101	Replacement Piezo (comes pre-mounted on valve)	1	EA
C	301-0000	Straight ⅜” (9.5 mm) Compression ⅜” MNPT	1	EA
D	301-0009	Tubing ⅜” (9.5 mm) Ø - Aluminum (Main Supply Tube)	5 ⅜	IN
E	301-0001	Elbow ⅜” (9.5 mm) Compression 90 Deg. ⅛” (3 mm) MNPT	1	EA
F	301-0068	Orifice (Main Burner Orifice) Drill to # 35 DMS (2.76 mm) for Natural Gas / Drill to #51 for LP (Propane) Gas	1	EA
G	301-0061	Washer ⅜” (9.5 mm) SAE Grade 8, Flat	1	EA
H	739-0019	Pilot Assembly Box	1	EA
I	314-0127	Gasket Ceramic Paper		
J	314-0127	Gasket Ceramic Paper	1	EA
K	308-0093	Pilot Assembly. Convertible NG/LP Base Mount. Includes the items listed below……..	1	EA
L		Part # 308-0057 - Thermocouple	1	EA
M		Part # 308-0056 - Thermopile	1	EA
N	832-0112	Complete Valve Tray Assembly	1	EA
O		Air Shutter	1	EA

PARTS LIST - FiberFlame Logs and Burner Bed



FiberFlame Burner Bed

Item #	Item Description	Qty	Unit
310-0080	FiberFlame Log 80	1	EA
310-0074	FiberFlame Log 74	1	EA
310-0069	FiberFlame Log 69	1	EA
310-0012	FiberFlame Log 12	1	EA
310-0013	FiberFlame Log 13	1	EA
310-0082	FiberFlame Log 82	1	EA
310-0083	FiberFlame Log 83	1	EA
839-0051	Burner Bed Assembly (Includes Ember Bed)	1	EA

REPLACEMENT PARTS LIST ARCHGARD OPTIMA 32-1

Item #	Item Description	Qty	Unit
200-0165	Owners Manual	1	EA
832-0005	Top Louver (grill) assembly (Metallic Black)	1	EA
832-0004	Bottom Louver (grill) assembly (Metallic Black)	1	EA
300-0030	Hinge Self Closing Brass	2	EA
800-0060	Air Shutter Assembly	1	EA
314-0131	Air Shutter Gasket	2	IN
800-0031	Wiring Harness assembly for On/Off Rocker Switch	1	EA
305-0019	On/Off Rocker Switch	1	EA
	Fan Components		
305-0012	Power Cord 8' (2.43 M)	1	EA
305-0013	Fan - Speed Control (Rheostat)	1	EA
305-0038	Fan - Thermodisc (fan sensor) 100^0 F. (38^0 Celsius)	1	EA
305-0024	Fan - Fan with motor and blades. 120VAC, 115V, 24 watt	1	EA
702-0047	Fan - Thermodisc mounting bracket	1	EA
702-0050	Fan - Heat Shield	1	EA
	Flat Glass Door		
800-0032	Complete Replacement Door. Includes glass, gasket and door frame	1	EA
	Ceramic Brick		
311-0063	Ceramic Brick Liner - Right Side	1	EA
311-0064	Ceramic Brick Liner - Left Side	1	EA
311-0054	Ceramic Brick Liner - Rear	1	EA
702-0044	Brick Panel Clips	2	EA

REPLACEMENT PARTS LIST ARCHGARD OPTIMA 32-1

Item #	Item Description	Qty	Unit
	Replacement parts for BBAY-32 Bay Door		
300-0031	Magnet Pull	2	EA
307-0026	Glass, 6mm Tempered (Middle Piece)	1	EA
307-0027	Glass, 6mm Temp (Side Piece)	2	EA
308-0095	Knob Ext. ON/OFF	1	EA
308-0094	Knob Ext. HI/LOW	1	EA
308-0096	Knob Ext. Piezo	1	EA
314-0006	Gasket Flat	65	IN
GMDS-32/25/70	Optional Gold Bay Window Strips (Full Set) Includes top & bottom trim pieces	1	EA
	Optional Surround Trims		
BEDTK-32	Black Trim for ESK & DSK-32R surround	1	SET
BLTK-32	Black Trim for LSK-32R surround	1	SET
GEDTK-32	Gold Trim for ESK & DSK-32R surround	1	SET
GLTK-32	Gold Trim for LSK-32R surround	1	SET
PEDTK-32	Pewter Trim for ESK & DSK-32R surround	1	SET
PLTK-32	Pewter Trim for LSK-32R surround	1	SET

ARCHGARD LIMITED WARRANTY

This Limited Warranty is made by ARCHGARD INDUSTRIES LTD., hereinafter referred to as “Archgard”. Archgard warrants to the original purchaser of an Archgard gas burning fireplace (s) that the product will be free of defects in materials and workmanship under normal use and service, for a “lifetime”.

INCLUSIONS: “LIFETIME LIMITED WARRANTY“
- All heat exchangers, combustion chamber, burner tubes and pans.
- Ceramic Fiber Logs and Ceramic Brick Panels against splitting or cracking.
- Ceramic Glass against thermal breakage.
- All 24 K gold trims and accessories against tarnishing.
- All trim accessories against tarnishing and paint defects.
- NOTE: Discoloration and some minor movement of certain parts are normal and are not a defect and therefore, not covered under warranty.

The above will be covered “parts & labor” to the original purchaser for FIVE years and “parts” only thereafter from original date of purchase.

INCLUSIONS: “FIVE YEAR LIMITED WARRANTY”
- Five year limited warranty on the “FiberFlame Technology Burner System.” Warranty will cover any defective burner and ceramic ember bed if defect is deemed as original by the manufacturer.

The above will be covered “parts & labor” to the original purchaser for TWO years and “parts” only thereafter from original date of purchase.

INCLUSIONS: “ONE YEAR LIMITED WARRANTY”
- Blowers, fans and fan motors, wiring, rheostats and thermodiscs.
- Rocker switches, spill switches and wiring to them.
- Gas control valves, pilot assemblies including thermopiles, thermocouples, electrodes, and igniters.

The above will be covered “parts & labor” to the original purchaser for ONE year from date of purchase.

EXCLUSIONS:
- Archgard does not offer wall mounted thermostats, programmable thermostats (wiring for hook-up of said product), handheld remote controls, fireplace mantel (s), trims or tiles.
- Ember Material.
- Tempered Glass is warranty for ONE year to the original purchaser from date of purchase.
- Travel time or mileage to original purchasers residence. Archgard suggests that you pre-arrange travel expenses with your Authorized Archgard Dealer.

WHAT TO DO IN THE EVENT OF A PROBLEM:
- Thoroughly read your manual.
- If you cannot solve the problem, contact your Archgard Dealer or representative.
- When calling for help please have the following information:

  Model of your Fireplace **Serial Number** **Place of Purchase**

  Date of Purchase **Problem Description**
- NOTE: Warranty may be void if work is carried out by an unqualified person (s). Only original Archgard parts may be used. Please consult your Archgard dealer or representative if in doubt about a replacement part (s).

OBTAINING WARRANTY SERVICE:
To obtain warranty service, the original purchaser shall return the defective part (s) to the original authorized Archgard selling dealer transportation prepaid, along with the serial number of the appliance and proof of purchase. Any defective part, in our judgment, will be repaired or replaced at Archgard’s discretion. The dealer must obtain approval from Archgard before any repairs are made.

WARRANTY LIMITATION:
THIS LIMITED WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED AS TO QUALITY, MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE.

The appliance is only warranted for the use as intended by the installation and operating instruction and local building codes. The warranty will not cover damage due to accident, misuse, abuse, alteration, improper installation or “Acts Of God”.
This limited warranty is void unless the appliance is installed by a qualified installer, in accordance with the instructions furnished with the appliance. Some Provinces or States do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to the original purchaser. Any damage resulting from defects in this product, is limited to the replacement of the defective part (s) and does not include incidental and consequential exposures sustained in connection with the product. This includes facing (s), mantle (s), cabinet (s), tile (s) or any other finishes resulting from removal of any gas appliance. This warranty is limited to residential use only and gives the consumer specific rights. These rights may vary from State to State or Province to Province.

FREQUENTLY ASKED QUESTIONS

Listed below are some frequently asked questions regarding Archgard Gas Fireplaces. If you have questions that are not listed below, or are not answered in this manual, please contact your Authorized Archgard Dealer.

Q. My glass has a condensation “fog” when the appliance is first lit.
A. Condensation is normal and will disappear in a few minutes after the glass is heated.

Q. I have a white “film” on my glass. What is the best way to clean the inside of the glass.
A. Frequent cleaning of your glass is recommended. Archgard recommends using a good quality “gas fireplace” glass cleaner that is available at all authorized dealers. Do not use abrasive materials, and do not clean the glass or the appliance when the unit is hot.

Q. How do I care for my gold plated trims.
A. Archgard recommends a cleaning with a damp cloth. DO NOT use chemical cleaners as they may harm the finish, and void your warranty. NOTE: If the top louvers, or top overlay starts to discolor, check the door gasket seal and replace if necessary.

Q. My fan/blower makes a “whirring” or “humming” noise.
A. Your Archgard gas appliance uses a powerful fan to push heated air into your room. It is not unusual to hear a “humming” noise when your fan is running. Note: the sound will change depending on the setting that your fan speed control is set at.

Q. I hear a “click” when my fan system activates.
A. When your appliance reaches temperature, it will activate the THERMODISC “fan switch”. The switch closes the electrical circuit that allows the fan to turn on. This is a normal sound.

Q. I hear a “ticking”, “cracking” or “pinging” sound when my fireplace is running, and after it is turned off.
A. The different gauges of steel used to manufacture your fireplace will expand and contract at different rates when your fireplace is on, and will continued as your fireplace completes its heating function. You will likely hear these same sounds more on start up and shut down. This is normal for steel fireplaces.

Q. When my appliance is OFF and my pilot light is lit, I hear a “whisper” sound.
A. The lit pilot can make a small noise. Sometimes in extreme wind conditions you may be able to hear air entering into the firebox chamber.

Q. I hear a “click" when my main burner turns ON or OFF.
A. Your Gas Control Valve will make a clicking sound when it opens to allow gas to flow to the main burner. This is a normal part of the operating system.

Q. Can I burn wood and other materials in my gas fireplace.
A. No! Burning anything other than natural or LP gas in a gas fireplace or stove will create a potential fire hazard and present a danger to your home and its occupants. Only burn the gas fuel for which the unit was originally designed.

Q. Can I shut my pilot off in the summer?
A. You will save energy by turning off the pilot light if you are not using your appliance for the hot summer months. Remember to relight it before you want to use the appliance for the first time in the fall. Refer to your owners manual for lighting instructions.

Q. Can I position my gas logs in a different fashion or use a different log set?
A. No. Your gas fireplace is an engineered system that includes the firebox, burner, logs, venting and options which are tested and listed by CSA. Changing any specifications or placement of the logs could void your manufacturer's warranty, and possible even your homeowner's warranty.

NOTES

CUT ALONG LINE

POSTAGE

WARRANTY REGISTRATION

ARCHGARD INDUSTRIES LTD.
7116 BEATTY DRIVE
MISSION, B.C. V2V 6B4
CANADA

FOLD DOWN AT LINE

CUT ALONG LINE

FOLD DOWN AT LINE & TAPE CLOSED

CUT ALONG LINE

Model # : OPTIMA 32-1 Serial #: _____ Date Installed: _____/_____/_____
mm dd yyyy

Name: _____ Address: _____

City: _____ State/Prov: _____ ZIP: _____ Phone: (_____) _____

Dealer's Name & Address: _____

City: _____ State/Prov: _____ ZIP: _____ Phone: (_____) _____

Installer's Name & Address: _____

City: _____ State/Prov: _____ ZIP: _____ Phone: (_____) _____

Why did you choose this product? _____

_____

Thank you for purchasing our product and filling out this warranty card.

Archgard Industries Ltd.
7116 Beatty Drive
Mission, B.C. V2V 6B4
Canada

Website: www.archgard.com